

INTERNET-DRAFT
Intended Status: Informational
Expires: April 26, 2012

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October 24, 2011

The 'xri' URI Scheme
draft-yevstifeyev-xri-uri-rsrv-03

Abstract

The purpose of this document is to register the 'xri' Uniform Resource Identifier (URI) scheme, which is used in URIs mapped from Extensible Resource Identifiers (XRIs), in the corresponding IANA registry under 'provisional' category.

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1. Introduction

Organization for the Advancement of Structured Information Standards (OASIS) has developed the specification of Extensible Resource Identifiers (XRIs). An XRI is a protocol element which is a superset of Internalized Resource Identifiers (IRIs) [[RFC3987](#)] and is designed to suit Requirements for Uniform Resource Names (URNs), laid out in [RFC 1737](#) [[RFC1737](#)], even though they are not URNs [[RFC2141](#)] themselves.

Current version of XRI syntax specification [[XRISyntax](#)], [Section 2.3.1](#), specifies how to map XRIs to IRI [[RFC3987](#)] and URI [[RFC3986](#)] references. It prescribes that the scheme name to be used in such IRIs and URIs is "xri". The purpose of this document is to formally register the scheme with IANA in the corresponding registry under 'provisional' category.

Please note that there is no assurance that further versions of XRI specifications (including the work-in-progress "XRI Syntax 3.0" [[XRISyntax3](#)]) will continue to use 'xri' URIs; if its use gets deprecated, the scheme will be moved to 'historical' to reflect this.

1.1. Community Consensus

OASIS has the Technical Committee (TC), which is responsible for developing and maintaining XRI specifications, - XRI TC. This document has been prepared for this TC and has received its review, which revealed wide consensus of the TC's members.

2. Registration Template for 'xri' URI Scheme

This section contains the registration template for 'xri' URI scheme, as required by [[RFC4395](#)].

URI scheme name: xri

Status: Provisional

URI scheme syntax: see Section 2.3.1 of [[XRISyntax](#)]

URI scheme semantics: XRIs and correspondingly 'xri' URIs are meant to persistently identify the resource, as URNs [[RFC2141](#)]; see

[XRIResolution] for specification of one of the ways they can be resolved

XRI scheme encoding considerations: see [Section 2.1](#) and 2.3.1 of [XRISyntax]

Protocols that use the scheme: there are no specific restrictions on the range of applications and protocols which may use XRIs and 'xri' URIs

Security considerations: see [Section 3](#) of RFC xxxx

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References: see [Section 5](#) of RFC xxxx

[RFC Editor Note: Please replace xxxx with number of this RFC]

[3. Security Considerations](#)

Security considerations for XRIs are discussed in Section 3 of [\[XRISyntax\]](#).

[4. IANA Considerations](#)

IANA is asked to register the 'xri' URI scheme using the template of [Section 2](#).

[5. References](#)

[5.1. Normative References](#)

[XRISyntax] Reed, D., Ed. and D. McAlpin, Ed., "Extensible Resource Identifier (XRI) Syntax V2.0", OASIS Committee Specification, November 2005.
<<http://docs.oasis-open.org/xri/xri-syntax/2.0/specs/cs01/xri-syntax-V2.0-cs.html>>.

[5.2. Informative References](#)

[RFC1737] Sollins, K. and L. Masinter, "Functional Requirements for Uniform Resource Names", [RFC 1737](#), December 1994.

[RFC2141] Moats, R., "URN Syntax", [RFC 2141](#), May 1997.

- [RFC3986] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, [RFC 3986](#), January 2005.
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- [XRIResolution]
Wachob, B., Ed., Reed, D., Ed., Chasen, D., Ed., Tan, W., Ed. and S. Churchill, Ed., "Extensible Resource Identifier (XRI) Resolution Version 2.0", OASIS Committee Specification, April 2008, <<http://docs.oasis-open.org/xri/xri-resolution/2.0/specs/cs01/xri-resolution-V2.0-cs-01.html>>.
- [XRISyntax3]
Davis, P. and D. Reed, "Extensible Resource Identifier (XRI) Version 3.0", Work in Progress (OASIS TC Working Draft xri-syntax-3.0-wd03), January 2010, <http://www.oasis-open.org/committees/document.php?document_id=35971>.

[Appendix A](#). Acknowledgments

The authors would like to thank Graham Klyne for his comments on this document.

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